

## CURRICULUM VITAE

NAME: Richard D. Abramson

BUSINESS ADDRESS: Program in Core Research  
Roche Molecular Systems, Inc.  
1145 Atlantic Avenue  
Alameda, California 94501  
(510) 814-2906

HOME ADDRESS: 5901 Broadway Apt. #30  
Oakland, California 94618  
(510) 655-8152

DATE AND PLACE OF BIRTH: February 21, 1958, Cleveland, Ohio

### EDUCATION:

Aug. 1982–Aug. 1987	Case Western Reserve University, Cleveland, Ohio Ph.D. in Biochemistry (8/17/87) Advisor: Dr. William C. Merrick Dissertation: Messenger RNA-Specific Eukaryotic Initiation Factors
Sept. 1979–June 1981	New College, Sarasota, Florida
Aug. 1978–May 1979	Yale University, New Haven, Connecticut
March 1976–June 1978	New College, Sarasota, Florida

### EMPLOYMENT HISTORY:

Dec. 1991–Present	Research Investigator, Program in Core Research Roche Molecular Systems, Inc., Alameda, CA 94501 Supervisor: Dr. David H. Gelfand
July 1989–Dec. 1991	Postdoctoral Associate Scientist, Core Technology Polymerase Chain Reaction (PCR) Division Cetus Corporation, Emeryville, CA 94608 Supervisor: Dr. David H. Gelfand

Sept. 1987-June 1989

Research Associate, Institute for Molecular Genetics,  
Baylor College of Medicine, Houston, TX 77030  
Supervisors: Drs. Arthur L. Beaudet and William E. O'Brien

Aug. 1981-Aug. 1982

Junior Research Assistant, Department of Biochemistry,  
Case Western Reserve University, Cleveland, OH 44106  
Supervisor: Dr. Howard Gershman

MEMBERSHIPS:

American Society for Microbiology

American Society for Biochemistry and Molecular Biology

## PUBLICATIONS

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9. Abramson, R.D., Browning, K.S., Dever, T.E., Lawson, T.G., Thach, R.E., Ravel, J.M. and Merrick, W.C. 1988. Initiation factors that bind mRNA: A comparison of mammalian factors with wheat germ factors. *J. Biol. Chem.* 263, 5462-5467.
10. Abramson, R.D., Dever, T.E. and Merrick, W.C. 1988. Biochemical evidence supporting a mechanism for cap-independent and internal initiation of eukaryotic mRNA. *J. Biol. Chem.* 263, 6016-6019.
11. Lawson, T.G., Cladaras, M.H., Ray, B.K., Lee, K.A., Abramson, R.D., Merrick, W.C. and Thach, R.E. 1988. Discriminatory interaction of purified eukaryotic initiation factors 4F plus 4A with the 5' ends of reovirus messenger RNAs. *J. Biol. Chem.* 263, 7266-7276.

12. McMullin, E.L., Haas, D.W., Abramson, R.D., Thach, R.E., Merrick, W.C. and Hagedorn, C.H. 1988. Identification of a protein kinase activity in rabbit reticulocytes that phosphorylates the mRNA cap binding protein. *Biochem. Biophys. Res. Commun.* 153, 340-346.
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15. Lawson, T.G., Lee, K.A., Maimone, M.M., Abramson, R.D., Dever, T.E., Merrick, W.C. and Thach, R.E. 1989. Dissociation of double-stranded polynucleotide helical structures by eukaryotic initiation factors, as revealed by a novel assay. *Biochemistry* 28, 4729-4734.
16. Abramson, R.D., Barbosa, P., Kalumuck, K. and O'Brien, W.E. 1991. Characterization of the human argininosuccinate lyase gene and analysis of exon skipping. *Genomics* 10, 126-132.
17. Holland, P.M., Abramson, R.D., Watson, R. and Gelfand, D.H. 1991. Detection of specific polymerase chain reaction product by utilizing the 5'→3' exonuclease activity of *Thermus aquaticus* DNA polymerase. *Proc. Natl. Acad. Sci. USA* 88, 7276-7280.
18. Holland, P.M., Abramson, R.D., Watson, R., Will, S., Saiki, R.K. and Gelfand, D.H. 1992. Detection of specific polymerase chain reaction product utilizing the 5'→3' exonuclease activity of *Thermus aquaticus* DNA polymerase. *Clinical Chemistry*, 38, 462-463.
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21. Abramson, R.D. 1994. "Thermostable DNA Polymerases" in *PCR Strategies* (eds. M. Innis, D. Gelfand and J. Sninsky) Academic Press, Inc., San Diego, CA. Manuscript in press
22. Abramson, R.D., Stoffel, S. and Gelfand, D.H. 1994. Extension rate and processivity of *Thermus aquaticus* DNA polymerase. Manuscript in preparation.
23. Abramson, R.D. and Gelfand, D.H. 1994. Characterization of the 5'→3' exonuclease activity of *Thermus aquaticus* DNA polymerase. Manuscript in preparation.

## ABSTRACTS

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4. Merrick, W.C., Abramson, R.D., Caliendo, A.M. and Grifo, J.A. 1985. Function of the protein synthesis initiation factors which bind mRNA. 13<sup>th</sup> International Congress of Biochemistry, Amsterdam, The Netherlands.
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19. Abramson, R.D. 1991 Enzymology of thermostable DNA polymerases used in the polymerase chain reaction. Invited speaker, IBEX'91, San Francisco, CA
20. Abramson, R.D., Holland, P.M., Watson, R. and Gelfand, D.H. 1992 Characterization of the 5'→3' exonuclease activity of *Thermus aquaticus* DNA polymerase. *J. Cell. Biochem. Supplement* 16B, 23.
21. Abramson, R.D. and Gelfand, D.H. 1992 Characterization of the strand displacement and nick translation activities of *Thermus aquaticus* DNA polymerase. Abstracts of the 92nd General Meeting of the American Society for Microbiology, 200.
22. Holland, P.M., Watson, R., Abramson, R.D. and Gelfand, D.H. 1992 A novel method for specific detection of *Borrelia burgdorferi* by utilizing the 5'→3' exonuclease activity of *Thermus aquaticus* DNA polymerase in a polymerase chain reaction assay. Abstracts of the 92nd General Meeting of the American Society for Microbiology, 524.
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